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#### NOTICE OF ALLOWANCE AND FEE(S) DUE

26646

7590

02/10/2004

KENYON & KENYON ONE BROADWAY NEW YORK, NY 10004

EXA	MINER
NGUYE	N, HOANG V
ART UNIT	PAPER NUMBER
2821	-

DATE MAILED: 02/10/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/019,824	05/10/2002	Thomas Wixforth	10191/2135	9925

TITLE OF INVENTION: HELICAL ANTENNA

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$0	\$1330	05/10/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- □ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (703) 746-4000

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INSTRUCTIONS: This fo appropriate. All further co- indicated unless corrected maintenance fee notification	rm should be used for trans rrespondence including the F below or directed otherwise ns.	smitting the ISSUE Patent, advance orde in Block 1, by (a) s	FEE and PUBLE ers and notification specifying a new	CATION FEE (if request of maintenance fees to correspondence address	ired). Blocks I through 4 sh will be mailed to the current of ; and/or (b) indicating a separ	ould be completed where correspondence address as ate "FEE ADDRESS" for
CURRENT CORRESPONDENCE	CE ADDRESS (Note: Legibly mark-up	with any corrections or us	e Block 1)	Fee(s) Transmittal. The	mailing can only be used for is certificate cannot be used for al paper, such as an assignment	or any other accompanying
	590 02/10/2004			have its own certificat	e of mailing or transmission.	
KENYON & KE				Ce I hereby certify that the	rtificate of Mailing or Transi	nission denosited with the United
ONE BROADWA NEW YORK, NY				States Postal Service addressed to the Ma transmitted to the USI	his Fee(s) Transmittal is being with sufficient postage for firs il Stop ISSUE FEE address PTO, on the date indicated belo	t class mail in an envelope above, or being facsimile
						(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE	FI	RST NAMED INVE	NTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/019,824	05/10/2002		Thomas Wixfor	th	10191/2135	9925
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NGUYEN,	HOANG V	2821	<u> </u>	343-895000	_	
1. Change of correspondence	e address or indication of "Fe	ee Address" (37	2 For printing of	n the patent front page,	list (1) the	
CFR 1.363).		(	names of up to	3 registered patent a	ittorneys or 1	•
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Please check the appropriate	e assignee category or catego	ries (will not be prin	ted on the natent):	🔾 individual 🔾	corporation or other private gro	oup entity
4a. The following fee(s) are			Payment of Fee(s)			<u> </u>
☐ Issue Fee			A check in the a	mount of the fee(s) is en	closed.	
☐ Publication Fee			Payment by cred	it card. Form PTO-2038	is attached.	
☐ Advance Order - # of	Copies		The Director is Deposit Account N	hereby authorized by c umber	harge the required fee(s), or o	
Director for Patents is reque	ested to apply the Issue Fee ar	nd Publication Fee (i	f any) or to re-app	ly any previously paid i	ssue fee to the application ider	ntified above.
(Authorized Signature)	•	(Date)				
NOTE; The Issue Fee an other than the applicant; interest as shown by the re	d Publication Fee (if require a registered attorney or age cords of the United States Pa	ed) will not be acce ent; or the assignee tent and Trademark	epted from anyone or other party in Office.			
This collection of inform obtain or retain a benefit application. Confidentialit estimated to take 12 minu completed application for case. Any comments on suggestions for reducing Patent and Trademark 22313-1450. DO NOT 5 SEND TO: Commissioner Under the Paperwork Re	ation is required by 37 CFR by the public which is to fit y is governed by 35 U.S.C. I tes to complete, including gem to the USPTO. Time will the amount of time you rethis burden, should be sent toffice, U.S. Department of SEND FEES OR COMPLE for Patents, Alexandria, Virgeduction Act of 1995, no general property of the property of t	1.311. The informa le (and by the USP' 22 and 37 CFR 1.14 athering, preparing, al vary depending upequire to complete to the Chief Informa of Commerce, Ale TED FORMS TO inia 22313-1450.	tion is required to TO to process) ar. This collection is and submitting the pon the individua this form and/o ation Officer, U.S. exandria, Virginis THIS ADDRESS			
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## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

APPLICATION NO	PPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/019,824	10/019,824 05/10/2002		Thomas Wixforth	10191/2135	9925
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KENYON &		1	NGUYEN,	HOANG V	
NEW YORK,				ART UNIT	PAPER NUMBER
,				2821	
			DATE MAILED: 02/10/200	4	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(c)
	Application No.	Applicant(s)
Notice of Allowability	10/019,824	WIXFORTH ET AL.
Notice of Allowability	Examin r	Art Unit
	Hoang V Nguyen	2821
The MAILING DATE f this communicati n appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commu IGHTS. This application is s	this application. If not included inication will be mailed in due course. <b>THIS</b>
1. $\boxtimes$ This communication is responsive to <u>amendment filed on </u>	<u>11/14/03</u> .	
2. The allowed claim(s) is/are <u>11-30</u> .		
3. The drawings filed on are accepted by the Examine	r.	
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority una)  All b)  Some* c)  None of the:  1.  Certified copies of the priority documents have 2.  Certified copies of the priority documents have 3.  Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.</li> <li>5.  A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give (a)  including changes required by the Notice of Draftspers 1)  hereto or 2)  to Paper No./Mail Date  (b)  including changes required by the attached Examiner' Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the cattached Examiner's comment regarding REQUIREMENT</li> </ul>	e been received. e been received in Application cuments have been received of this communication to file MENT of this application.  Initted. Note the attached EXA es reason(s) why the oath or set be submitted. Son's Patent Drawing Review. Es Amendment / Comment or 18.84(c)) should be written on the header according to 37 CF esit of BIOLOGICAL MATE	n No  If in this national stage application from the a reply complying with the requirements  AMINER'S AMENDMENT or NOTICE OF declaration is deficient.  If (PTO-948) attached  In the Office action of the drawings in the front (not the back) of R 1.121(d).  ERIAL must be submitted. Note the
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date 11/14/03  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6.  Interview Si Paper No./ 7.  Examiner's 8.  Examiner's 9.  Other	formal Patent Application (PTO-152)  Lummary (PTO-413),  Mail Date  Amendment/Comment  Statement of Reasons for Allowance  -
PRIMARY EXAM	INER	

Application Number: 10/019,824

Art Unit: 2821

#### Allowable Subject Matter

1. Claims 11-30 are allowed.

2. The following is an examiner's statement of reasons for allowance:

Regarding claims 11 and 20, there is no strong motivation to combine the teachings of Dicken et al (GB 2 207 556) and Li et al to produce the spiral antenna as claimed that comprises four parallel electrically conducting spiral arms, wherein respective inner spiral arm ends of each of the spiral arms are connected with a common coplanar conductor for at least one of supplying and receiving a signal.

Claims 12-19 and 21-30 are allowed for depending on claim 11.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Correspondence

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoang V Nguyen whose telephone number is (571) 272-1825. The examiner can normally be reached on Mondays-Fridays from 9:00 a.m. to 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Page 3

Application Number: 10/019,824

Art Unit: 2821

5. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hvn 1/30/04

> HOANG V. NGUYEN PRIMARY EXAMINER